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Eagle Point Solution to a Frequently Asked Question

How to Import Points into Eagle Point

Summary:
This document explains the process of importing survey points into an Eagle Point project.

Product: Eagle Point Software™ 2001
Release: 2001 Q4 or 1.4.0 and greater
Platform: All
Related documents:

As always, should you have any questions regarding any phase of installation, contact Eagle Point Technical Assistance at (800) 477-0909.

Eagle Point Steps Using the NRCS/EP Customized Menu

Notation Method
Button to Press *Displayed Text* **Icon** Action {Text to Enter} *Menu Item…*

Downloading a Survey from a Data Collector

1. From AutoCAD, click *NRCS/EP… Survey Import… Download from Collector….*
2. Input a job name that describes this survey. E.g. {BC33 downstream}.
3. Select the correct Format for your collector. E.g. *Sokkia SDR 33*.
4. Select serial port. E.g. *Com1*.
5. Select baud rate. E.g. *9600*.
6. Select data bits. E.g. *8,none*.
7. Place checkmark in the box for create a legal backup file.
8. Click OK.
9. Make sure the data collector is ready then press any key on your computer keyboard.
10. Send job from data collector. Data will scroll across Eagle Point window.
11. When data collector is finished, turn collector off.
12. Press any key on keyboard. Survey has been transferred into an EP data file.

Importing a Survey from a File

1. From AutoCAD, click *NRCS/EP… Survey Import… Import ASCII File….*
2. Input a job name that describes this survey. E.g. {BC33 downstream}.
3. Find the data File Name by clicking the **Folder Icon** and browsing to the filename. OR input the path and filename of the file. E.g. {A:\BC33survey1.asc}.

4. Select the correct format for your date file. E.g. *Coordinate*.
5. Place checkmark in the box for create a legal backup file.
6. Click OK. The survey has been transferred into an EP data file.

What Format is my file?

Filename	Format
.sdr (From Leitz Data Collector)	SDR33
.asc (From Total Station Utilities)	Coordinate (Pt#, N, E, Elev, Desc)

Reducing a Survey and Placing Nodes into the Drawing

1. From AutoCAD, click *NRCS/EP… Survey Import… Reduce….*
2. Click to highlight the job you placed into the CAD drawing. E.g. *BC33 downstream*.
3. Click OK. Most likely a Query warning box will appear that will show shot identities that don't match with the Field Code library. Those shots will be placed using the default field code.
4. Review the warnings if you want. Click Close on this Query warning box. You will see your points in the AutoCAD drawing.

Printing Survey Notes

1. From AutoCAD, click *NRCS/EP… Survey Import… Manage….*
2. Select the survey to manage by clicking the job name. E.g. *BC33 downstream*.
3. Click the **Printer Icon** in the lower left-hand side of box to bring up a Print Job box.
4. Place a checkmark by clicking on the copies you want printed out. You might want the original instrument file, and formatted file (this is the one that you will edit and use in creating your contours etc.).
5. Click on Print. Review your hard copies to identify what might need to be edited.
6. Click on Close to close out Manage Jobs box.

Editing Survey Data

1. From AutoCAD, click *NRCS/EP… Survey Import… Edit Formatted File….*
2. Use the pulldown to select your job to edit. E.g. *BC33 downstream*. Click on Edit.
3. Edit the file. Rows that have YY, XX, ZZ or YC, XC, ZC are points that get placed as nodes. You can edit the descriptions and elevations by highlighting a cell entering new information. You can delete a row by clicking on *Tools… Delete Row*.
4. After editing, save the updates by clicking *File… Save*.
5. Then click *File… Exit*. This takes you back into Eagle Point/AutoCAD boxes.
6. Click on Close to close out Edit Formatted File box.
7. You can go back and get an updated printout of your edited Formatted file.
8. Repeat the steps for Reducing a Survey & Placing Nodes into the Drawing.

Swivel Labels Around All Nodes

1. From AutoCAD, click *NRCS/EP… Survey Import… Node Swivel….*
2. Click Next.
3. Selection Method *All*. Click Apply.
4. Number of nodes appears. Click Next.
5. Specify Rotation angle. E.g. {–45} degrees, *Absolute*. Click Next.
6. Click Apply.
7. Click Close.

Change Size of All Node Labels

1. From AutoCAD, click *NRCS/EP… Survey Import… Node Resize….*
2. Click Next.
3. Selection Method *All*. Click Apply.
4. Number of nodes appears. Click Next.

5. Click *Scale Attributes*. Input Relative scale factor. E.g. {2}. Click Next.
6. Click Apply.
7. Click Close.

Plotting the Survey Points Using AutoCAD Paperspace

1. In AutoCAD, click on a layout tab *Layout1*.
2. If this Layout has not been set up yet the Page Setup will appear. Otherwise right click the Layout1 Tab and click Page Setup.
3. Click Plot Device and select the printer/plotter that you will use. E.g. {HP 5000}.
4. Pull down Plot style table to either *Monochrome.ctb* for B&W plotting or to *NRCS IA BWgray.ctb* for gray plotting of gray lines.
5. Click Layout Settings and select the paper size E.g. {11 x 17}. Plot Scale is typically left at 1:1.
6. Click OK.
7. Check the AutoCAD status bar to make sure that *PAPER* is displayed. If *MODEL* appears click once to make *PAPER* appear.
8. Set the current layer to 0.
9. From AutoCAD, click *Insert… Block…Browse….*
10. Browse to the desired title block. E.g. {P:\CADD Resources\Borders and Title Blocks\std17base.dwg}. Highlight the filename. Click Open.
11. With none of the items checked click OK.
12. Right click the Layout1 Tab and click Page Setup.
13. Click Plot area *Extents* and checkmark Plot offset *Center the plot*.
14. Click OK.
15. Select the viewport border. Click *Modify… Properties….*
16. Pull down the layer name to become *2.Vprt*.
17. Click a grip of the viewport to resize the viewport within the area of the paper & title block.
18. Double click inside of the viewport. *PAPER* will switch to *MODEL*.
19. Use the mouse wheel to zoom the window to show the area that you want.
20. Double click outside of the viewport. *MODEL* will switch to *PAPER*.
21. Select the viewport border. Click *Modify… Properties….*
22. Look at the Custom Scale and determine an engineering scale that is near this custom scale. E.g. Custom Scale = 0.0111 is 1/0.0113 or 88.49'. 100 scale would be a useable scale.
23. Input a useable scale into the custom scale box as a {1/xxx} Enter. E.g. Input 200 scale as {1/200} Enter.
24. Pull down the display locked to *Yes.*
25. Right click the Layout1 Tab and click Plot...
26. Click Full Preview to review the planned plot.
27. Press Enter to return to the Plot screen.
28. Click OK to Plot.

Selecting Layers to Not Plot Within a Viewport

1. Go into the viewport: double click inside of the viewport. MODEL will be the status item present.
2. In AutoCAD, click on the **Layer Manager Icon**.
3. Use the *Current* (or *Active*) *VP Freeze* column to freeze layers within this view. E.g. If I don't want my Original Ground Intermediate contours to show in this viewport, apply the *Current VP Freeze* to the layer *C.Topo.Ogrnd.Intr*.
4. Click OK.

Submitted by Norman Friedrich.